

## ABSTRACT

An engine cooling system control apparatus for vehicles and a method thereof, wherein an operating load is determined by a throttle position of an engine and engine RPM, a pre-set temperature is determined in response to the operating load, and the pre-set temperature and the engine temperature are compared to control the opening and closing level of an electronic valve means for adjusting the circulating flow of cooling water, whereby the flow of cooling water can be accurately adjusted in response to the operating load condition and temperature of the engine, thereby ensuring optimal control of the cooling water temperature in response to the load condition of the engine and preventing thermal shock and instability in the cooling water temperature.